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## FINAL TECHNICAL PROGRESS REPORT

1 February 1972 - 30 April 1972

During the final quarter the last Systems-oriented report was prepared and submitted: [redacted] as an Incapacitating Agent [redacted]

While [redacted] is a relatively safe incapacitating agent, variations in individual susceptibility, possible delayed effectiveness due to breath-holding and difficulty in rapid, surreptitious delivery -- especially in a large room that is not reasonably airtight -- limit its usefulness as an incapacitating agent.

Major emphasis during this quarter was also placed on providing, in a readily available form, the maximum amount of practically useful information from previous reports. To this end, unclassified versions of the reports on electric shock and non-penetrating impact were submitted: Incapacitation of Criminals by Non-Penetrating Impact and Incapacitation of Criminals by Electric Current.

Of all the specific incapacitation systems examined, the [redacted] device appears to be the most promising. Dr. [redacted] cardiologist, Dr. [redacted] visited [redacted] and submitted a special report on their device, with recommendations for animal studies which would help validate the physiological safety of this incapacitation technique.

The final activity undertaken under this project was a brief ad hoc review of the Soviet technique known as Kirlian photography. Biological materials, when placed along with photographic film in a high-voltage radio frequency field produce a picture which shows details of the object not visible under ordinary light. With the help of [redacted] on the subject, a simple instrument was developed and satisfactory Kirlian-type photographs were obtained in both color and black-and-white.

Summary of reports, letter reports and substantive reviews submitted under Project

Letter report on U. S. Patent 3, 523, 538

Letter report on [redacted] with circuit diagram

30 April 1971 Status reports:

General Program Outline  
Behavior Control Literature Review  
Real Life Situations  
Program for Continuation of Work

Report: Electric Current as an Agent for Personnel Incapacitation

Report: [redacted] as a Vehicle for Incapacitating Agents

Report: Non-Penetrating Impact as an Agent for Personnel Incapacitation

Report: [redacted] as an Incapacitating Agent

Letter report: Possible Interactions Between [redacted]

Letter report: Trip Report "Visit to [redacted]"

Report: Incapacitation of Criminals by Non-Penetrating Impact

Report: Incapacitation of Criminals by Electric Current

Ad Hoc Report: Investigation of Kirlian Photography

6 Quarterly Technical Progress Reports, which includes the Final Technical Progress Report and,

16 Monthly Contract Status Reports, which includes the final monthly report.

Administrative Aspects

Expenditures to date:

	<u>Quarter Amount</u>	<u>% of Total</u>	<u>Cumulative Amount</u>	<u>% of Total</u>
Nov 70 - Jan 71	\$	1.2	\$	1.2
Feb - Apr 71		14.4		15.6
May-Jul 71		7.7		23.3
Aug - Oct 71		22.3		45.6
Nov 71 - Jan 72		31.1		76.6
Feb 72 - Apr 72		23.4		100.0